Epson FX Command Summary

Epson Command	ASCII	Hexadecimal	Decimal
Printer Operation/Data Control			
Configuration Group, Select Select CFG1 P1 = 0: command valid P1 = 1: command invalid	ESC DLE J P1 SOH	1B 10 4A P1 01	27 16 74 P1 1
Select CFG2 P1 = 0: command valid P1 = 1: command invalid	ESC DLE J P1 STX	1B 10 4A P1 02	27 16 74 P1 2
Delete	DEL	7F	128
Emulation, Mode Select Epson FX IBM Proprinter OKI Microline Standard	ESC { @ ESC { NUL ESC { !	1B 7B 40 1B 7B 00 1B 7B 21	27 123 64 27 123 0 27 123 33
MSB Control Cancel MSB control Set MSB equal to 0 Set MSB equal to 1	ESC # ESC = ESC >	1B 23 1B 3D 1B 3E	27 35 27 61 27 62
Paper-Out Sensor Disable Enable	ESC 8 ESC 9	1B 38 1B 39	27 56 27 57
Paper Path, Change to Rear Path P1 represents the number of bytes of data	ESC DLE I P1 0	1B 10 49 P1 30	27 16 73 P1 48
Front Path P1 represents the number of bytes of data	ESC DLE I P1 1	1B 10 49 P1 31	27 16 73 P1 49
Print Direction Unidirectional Bidirectional Unidirectional for one line	ESC U 1 ESC U 0 ESC <	1B 55 31 1B 55 30 1B 3C	27 85 49 27 85 48 27 60
Print Speed, Half On Off	ESC s 1 ESC s 0	1B 73 31 1B 73 30	27 115 49 27 115 48
Print Suppress On Off	DC3 DC1	13 11	19 17
Reset Clear Print Buffer Clear Buffer and Initialize Printer	ESC @ CAN	1B 40 18	27 64 24
Select Menu Item See the end of this appendix for details on this command.	ESC DLE D Pno Pa1 Pb1 Pa2 Pb2...Pan Pbn	1B 10 44 Pno Pa1 Pb1 Pa2 Pb2...Pan Pbn	27 16 68 Pno Pa1 Pb1 Pa2 Pb2...Pan Pbn
Software I-Prime	ESC }	1B 7D	27 125
Vertical Control			
Form Feed, Execute	FF	0C	12
Form Length Set in inches, n = 0 or 128 Set in lines, n = 1 to 127	ESC C NUL n ESC C n	1B 43 00 n 1B 43 n	27 67 0 n 27 67 n
Line Feed n/144 inch, n = 0 to 255 n/216 inch, n = 0 to 255 Forward LF with CR Reverse LF, n = 0 to 255	ESC % 5 n ESC J n LF ESC j n	1B 25 35 n 1B 4A n 0A 1B 6A n	27 37 53 n 27 74 n 10 27 106 n
Line Spacing n/72 inch increments n = 0 to 85, 128 to 213	ESC A n	1B 41 n	27 65 n

n/144 inch increments n = 1 to 255	ESC % 9 n	1B 25 39 n	27 37 57 n
n/216 inch increments n = 0 to 255	ESC 3 n	1B 33 n	27 51 n
1/6-inch	ESC 2	1B 32	27 50
1/8-inch	ESC 0	1B 30	27 48
7/72-inch	ESC 1	1B 31	27 49
Margins, Bottom (Auto Skip) Cancel Define, n = 0 to 127 lines	ESC O ESC N n	1B 4F 1B 4E n	27 79 27 78 n
Vertical Tabs Execute	VT	0B	11
Define tab stops n = 1 to 255 k = 1 to 16	ESC B n1 n2...nk NUL	1B 42 n1 n2...nk 00	27 66 n1 n2...nk0
Define tab stop sin channels m = 0 to 255 n = 0 to 7	ESC b n m1 m2...mk NUL	1B 62 n m1 m2...mk00	27 98 n m1 m2...mk0
Select channel n = 0 to 7, 128 to 135	ESC / n	1B 2F n	27 47 n
Horizontal Control			
Backspace	BS	08	8
Carriage Return	CR	0D	13
Horizontal Tabs Execute	HT	09	9
Set, up to 32 tabs x = 1 to 255 k = 1 to 32	ESC D x1 x2 x3...xk NUL	1B 44 x1 x2 x3...xk 00	27 68 x1 x2 x3...xk 0
Margins, Set by character columns Set left margin **Pitch - Range for n** 10 cpi - 1 to 134 12 cpi - 1 to 162 15 cpi - 1 to 202 17.1 cpi - 1 to 231 20 cpi - 1 to 255	ESC 1 n	1B 6C n	27 108 n
Set right margin **Pitch - Range for n** 10 cpi - 2 to 136 12 cpi - 3 to 164 15 cpi - 3 to 204 17.1 cpi - 4 to 234 20 cpi - 4 to 255	ESC Q n	1B 51 n	27 81 n
Print Position Define position by dot columns, indexed from present position. Dot position = n1 + (n2x256) n1 = 0 to 255 n2 = 0 to 255	ESC \ n1 n2	1B 5C n1 n2	27 92 n1 n2
Execute print position from current left margin Dot position = [n1 + (n2 x 256)]/60 n1 = 0 to 255 n2 = 0 to 255	ESC $ n1 n2	1B 24 n1 n2	27 36 n1 n2
Set print position n = 0 to 255: # of bytes to follow	ESC DLE @ n A1 A2 P_1 P_2 P_3 P_4	1B 10 40 n A1 A2 P_1 P_2 P_3 P_4	27 16 64 n A1 A2 P_1 P_2 P_3 P_4

A1 = 0 to 255: even, print position absolute from left edge; odd, print position relative to current position A2 = 0 to 255: even, toward right margin (forward); odd, toward left margin (reverse) P_1 P_2 P_3 P_4 = 0000 to 9999 ASCII			
Print Style/Print Size Control			
Character Pitch Select 10 cpi Select 12 cpi Condensed (17, 20 cpi) Select Cancel Select 15 CPI	ESC P ESC M ESC SI or SI DC2 ESC g	1B 50 1B 4D 1B 0F or 0F 12 1B 67	27 80 27 77 27 15 or 15 18 27 103
Composite Command, Select Print Features and Pitch n = 0 to 255 ***Bit*** ***1*** ***0*** b7:Underline Set Reset b6: Italics Set Reset b5: Dbl. Width Set Reset b4: Enhanced Set Reset b3: Emphasized Set Reset b2: Compressed Set Reset b1: Proportional Set Reset b0: Set cpi 12 cpi 10 cpi	ESC ! n	1B 21 n	27 33 n
Double Height Printing On Off	ESC w 1 ESC w 0	1B 77 31 1B 77 30	27 119 49 27 119 48
Double Width (Expanded) Printing On Off One line only On Off	ESC W 1 ESC W 0 ESC SO, SO DC 4	1B 57 31 1B 57 30 1B 0E, 0E 14	27 87 49 27 87 48 27 14, 14 20
Print Quality HSD NLQ Utility	ESC (0 ESC x 1 ESC x 0	1B 28 30 1B 78 31 1B 78 30	27 40 48 27 120 49 27 120 48
Proportional Width On Off	ESC p 1 ESC p 0	1B 70 31 1B 70 30	27 112 49 27 112 48
Select font by pitch and point (for Option ROM) Pn = 0: fixed spacing Pn = 1: proportional spacing Lp, Hp = 00H to FFH Np = Lp + (Hp x 256) Np > 43 Point Size = Np/2	ESC X Pn Lp Hp	1B 10 46 Pn Lp Hp	27 16 70 Pn Lp Hp
Typestyles Courier Gothic OCR-B	ESC k 0 ESC k 1 ESC k 5	1B 6B 30 1B 6B 31 1B 6B 35	27 107 48 27 107 49 27 107 53
Character Control			
Emphasized Mode Reset Set	ESC F ESC E	1B 46 1B 45	27 70 27 69

Enhanced (Double Strike) Reset Set	ESC H ESC G	1B 48 1B 47	27 72 27 71
Inter-Character Clearance, Set by dot columns n = 0 to 255	ESC SP n	1B 20 n	27 32 n
Justification Left Center Right Full	ESC a 0 ESC a 1 ESC a 2 ESC a 3	1B 61 30 1B 61 31 1B 61 32 1B 61 33	27 97 48 27 97 49 27 97 50 27 97 51
Superscript/Subscript Cancel Subscript Superscript	ESC T ESC S 1 ESC S 0	1B 54 1B 53 31 1B 53 30	27 84 27 83 49 27 83 48
Underline On Off	ESC - 1 ESC - 0	1B 2D 31 1B 2D 30	27 45 49 27 45 48
Character Set			
Assign character table Ln, Hn = 0 to 255 Pn1, Pn2, Pn3 = 0 to 255	ESC (t Hn Pn1 Pn2 Pn3	1B 28 74 Hn Pn1 Pn2 Pn3	27 40 116 Hn Pn1 Pn2 Pn3
Control Codes, Printable Reset Set	ESC 7 ESC 6	1B 37 1B 36	27 55 27 54
Control Codes or Printable Characters - on/off Interprets codes as printable characters Interprets codes are control codes	ESC | 1 ESC | 0	1B 49 31 1B 49 30	27 73 49 27 73 48
International Language Char Sets American French German British Danish I Swedish Italian Spanish I Japanese Norwegian Danish II Spanish II Latin American French Canadian Dutch Publisher	ESC R NUL ESC R SOH ESC R STX ESC R ETX ESC R EOT ESC R ENQ ESC R ACK ESC R BEL ESC R BS ESC R HT ESC R LF ESC R VT ESC R FF ESC R CR ESC R SO ESC R @	1B 52 00 1B 52 01 1B 52 02 1B 52 03 1B 52 04 1B 52 05 1B 52 06 1B 52 07 1B 52 08 1B 52 09 1B 52 0A 1B 52 0B 1B 52 0C 1B 52 0D 1B 52 0E 1B 52 40	27 82 0 27 82 1 27 82 2 27 82 3 27 82 4 27 82 5 27 82 6 27 82 7 27 82 8 27 82 9 27 82 10 27 82 11 27 82 12 27 82 13 27 82 14 27 82 64
Code Page Multilingual 850 Norway 865 Portugal 860 Canada French BRASCII Abicomp ISO 8859/15 IBM Multilingual 858	ESC R SUB ESC R ESC ESC R FS ESC R + ESC R P ESC R Q ESC R R ESC R S	1B 52 1A 1B 52 1B 1B 52 1C 1B 52 2B 1B 52 50 1B 52 51 1B 52 52 1B 52 53	27 82 26 27 82 27 27 82 28 27 82 43 27 82 80 27 82 81 27 82 82 27 82 83
Italic Character Set Cancel Select	ESC 5 ESC 4	1B 35 1B 34	27 53 27 52
Slant (Italics)/Graphics Char. Table Slant (italic) Epson Graphics	ESC t 0 ESC t 1	1B 74 30 1B 74 31	27 116 48 27 116 49
DLL Character Set			

Copy Pre-defined ROM data to RAM NLQ Courier NLQ Gothic NLQ OCR-B	ESC : NUL NUL NUL ESC: NUL SOH NUL ESC: NUL ENQ NUL	1B 3A 00 00 00 1B 3A 00 01 00 1B 3A 00 05 00	27 58 0 0 0 27 58 0 1 0 27 58 0 5 0
Select DLL Font DLL character set Pre-defined character set	ESC % 1 ESC % 0	1B 25 31 1B 25 30	27 37 49 27 37 48
Graphics Control			
Bit Image Graphics Double Horizontal Density, normal speed, n1, n2 = 0 to 255, specifies # of columns	ESC L n1 n2 <graphics data>	1B 4C n1 n2 <graphics data>	27 89 n1 n2 <graphics data>
Double Horizontal Density, high speed, n1, n2 = 0 to 255, specifies # of columns	ESC Y n1 n2 <graphics data>	1B 59 n1 n2 <graphics data>	27 89 n1 n2 <graphics data>
Quadruple Horizontal Density n1, n2 = 0 to 255, specifies # of columns	ESC Z n1 n2 <graphics data>	1B 5A n1 n2 <graphics data>	27 90 n1 n2 <graphics data>
Reassign Graphic's Density			
Reassign as Single Density, n = 0, 60 dpi n = 1, 120 dpi n = 2, 120 dpi/Quasi density n = 3, 240 dpi/Quasi density n = 4, 80 dpi n = 5, 72 dpi n = 6, 90 dpi n = 7, 144 dpi	ESC ? K n	1B 3F 4B n	27 63 75 n
Reassign as Low Speed Double Density, n = 0, 60 dpi n = 1, 120 dpi n = 2, 120 dpi/Quasi density n = 3, 240 dpi/Quasi density n = 4, 80 dpi n = 5, 72 dpi n = 6, 90 dpi n = 7, 144 dpi	ESC ? L n	1B 3F 4C n	27 63 76 n
Reassign as High Speed Double Density, n = 0, 60 dpi n = 1, 120 dpi n = 2, 120 dpi/Quasi density n = 3, 240 dpi/Quasi density n = 4, 80 dpi n = 5, 72 dpi n = 6, 90 dpi n = 7, 144 dpi	ESC ? Y n	1B 3F 59 n	27 63 89 n
Reassign as Quadruple Density, n = 0, 60 dpi n = 1, 120 dpi n = 2, 120 dpi/Quasi density n = 3, 240 dpi/Quasi density n = 4, 80 dpi n = 5, 72 dpi n = 6, 90 dpi n = 7, 144 dpi	ESC ? Z n	1B 3F 5A n	27 63 90 n
Select 9 pin mode m = 0: single density graphics m = 1: double density graphics m = 2: high-speed double density graphics	ESC ^ m n1 n2	1B 5E m n1 n2	27 94 m n1 n2

m = 3: quadruple density graphics n1, n2 = 0 to 255: total number of dot columns to be printed in graphics n = total number of dots to be printed: n1 = n - (n2 x 256) n2 = INT (n/256)			
Select density and enter graphics mode m = 0: single density, 60 dpi m = 1: slow speed double density, 120 dpi m = 2: high speed double density, 120 cpi m = 3: quadruple density, 240 dpi m = 4: CRTI, 80 dpi m = 5: Plotter (1 : 1), 72 dpi m = 6: CRTII, 90 dpi m = 7: Double density plotter, 144 dpi n1, n2 = 0 to 255, specifies # of columns	ESC * m n1 n2 <graphics data>	1B 2A m n1 n2 <graphics data>	27 42 m n1 n2 <graphics data>
Single Horizontal Density n1, n2 = 0 to 255, specifies 3 of columns	ESC K n1 n2 <graphics data>	1B 4B n1 n2 <graphics data>	27 75 n1 n2 <graphics data>
Bar Code Commands (see end of this chapter)			